



# Satellite Image Enhancement: Systematic Approach for Denoising and Resolution Enhancement

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Résumé en anglais	This paper proposes a satellite image enhancement system consisting of denoising and resolution enhancement. The technique firstly decomposes the noisy input image into different frequency subbands by using Dual Tree Complex Wavelet transform and denoises these subbands by using Local Adaptive Bivariate Shrinkage Function. Then the denoised image once more is decomposed into the different frequency subbands by using Discrete Wavelet Transform. Interpolated high frequency subbands and the denoised image are used to obtain the super resolved image by applying Inverse DWT. The quantitative and qualitative experimental results are showing the superiority of the proposed method over the conventional and the state-of-the-art techniques.
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